

Patent Number(s): JP54135896-A

Title: Prepn. of polyester with good transparency and hue - by polycondensing bis(beta-hydroxyethyl)-terephthalate using antimony catalyst, adding organo-tin cpd. cobalt cpd. and alkali metal cpd.

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Derwent Primary Accession Number: 1979-86885B [48]

Patents Cited by Inventor: 0

Citing Patents: 0

Articles Cited by Inventor: 0

Patents Cited by Examiner: 0

Articles Cited by Examiner: 0

Abstract:

Polyester is prepd. by polycondensating bis(beta-hydroxyethyl)terephthalate using an Sb cpd. as catalyst.

The improvement comprises adding to the reaction system an organotin cpd. (e.g. dimethyltin oxide or trimethyltin chloride), a cobalt cpd. (e.g. CoCl₂ or cobalt acetate) and an alkali metal cpd. (e.g. hydroxide, methylate, ethylate carbonate, borate, formate, acetate or benzoate of Li, Na or K) in a ratio satisfying the formulae 1×10^{-4} A 10×10^{-4} ; 0.01 B/A 0.2; 0.2×10^{-4} C 2×10^{-4} and 0.1 D/A 3. In the formulae, A, B, C, D = mol. of Sb, Sn, Co and alkali metal, respectively, per mol. of the acid component constituting the polyester).

Blue hue resulting from the cobalt cpd. is strengthened and a distinct blue colour can be obtd. unlike the blacky-blue colour obtd. by the use of the cobalt cpd. alone.

International Patent Classification: C08G-063/22

Derwent Class: A23 (Polyamides, polyesters, polycarbonates, alkyds)

Derwent Manual Code(s): A02-A07; A05-E04A; A08-M09

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